YAMAHA V-MAX 83-87 std

Engine Basic	Spec
Bore	73
Stroke	64
Con-Rod	116
Total cc	535.8
Bore/Stroke Ratio	1,14
Rpm Peak HP	8250
HP,max	86.4
Rpm Peak Torque	7500
Torque,max,lb-ft	57
BMEP Hp Peak,Psi	125.1
BMEP Hp peak,Bar	8,62
Piston Speed,m/s	17.52
Piston Speed,ft/min.	3450
Liter/Hk	163.5
Fuel Flow	58
BSFC	0,69

Head Basic S	Spec
Geometric CR/1	12.75
Trapped CR/1	6,70
O-Ring	0.10
Deck Clearance	0.20
Head Step Cut	1.30
Total Squish Clea.	1.50
Head Bore	73.2
Used Cylinder gasket	0.40
Est. Octane R+M/2	93
Est. Crank Press,PSI	147
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Head Volu	me
Gasket Volume	0.44
Deck Volume	0.84
Port Closed Vol.	129.75
Head cc Flat Plate	27.5
Head cc Installed	22.79
Head Desi	ign
Type	Offset
Bowl Width - ble.R	41.2
Bowl Width + ble.R	41.8
Bowl Radius	20
Squish Width,offset	7,5+17,4
Squish Angle	16.5°
SAR	0.593
Total deep	19.3
Blending Radius	1.5
Head width	37.4
Head Squish A	ction
Squish Velocity m/s	42.2
Squish Pressure Ratio	1,072
At deg btdc	11.34
	Trapped CR/1 O-Ring Deck Clearance Head Step Cut Total Squish Clea. Head Bore Used Cylinder gasket Est. Octane R+M/2 Est. Crank Press,PSI Head Volume Gasket Volume Deck Volume Port Closed Vol. Head cc Flat Plate Head cc Installed Head Dest Type Bowl Width - ble.R Bowl Width + ble.R Bowl Radius Squish Width,offset Squish Angle SAR Total deep Blending Radius Head Squish A Squish Velocity m/s Squish Pressure Ratio

Kinetic Energy mj

24.5

Std. Piston Spec Skirt Length 70 Width intake side 57.8 Pin c. to up length 36.2 Pin c. to down length 33.8 Pin c. to trans inlet 15.8 Wrist-Pin diameter 20 2 * 1.2 Thickness of Rings Dome Height 3.4 Dome Ang under Sq.band 9° Dome volyme,cc 5.98 Weight Pist. 295g

Intake Port Sp	ec
Port intake diam.	44.5
Length in port	37.9
Dist. to top	75.7
Dist. to bottom	104,8
Port open mm	29.1
Number of ports	2
Width of each	22.2
Width total	52
Upper right radius	5
Upper left radius	2
Lower right radius	2 5
Lower left radius	2
Port area	1503
Time-Area	12.76
Angle-Area	6,28
Duration	171,84
A.T.D.C	85,9
% of bore width	71.2
Est. Carb size on area	41,5
Est.Carb size on cc/rpm	37
Intake gas velocity now	est. 212
Estimated HP	82
Estimated BMEP,Psi	121,1

Transfers Spec			
Main port roof to top	48.8		
M-port bottom to top	64.9		
M-port liner width	29.6		
M-port chordal width	22.5		
M-port angle up	19°		
5-Port roof to top	49.8		
5-port bottom to top	64.9		
5-port liner width	24.7		
5-port chordal width	17		
5-port angle up	5°		
Total area	1137		
Time-Area	6.77		
S-sg mm	2.03		
Good to bmep/hp	124 / 84		
Opens	113.6°		
Duration	132.8°		
TAW T/B ratio (ch)	1.01		
TAW T/B ratio liner	1.49		
Trans Inlet,mm	110.6		
Inlet to port area ratio	1.5		
Length of ports	64 + 8.8		

Exhaust Spe	<i>c</i> .
Dist. to top	31.2
Upper radius	24
Lower radius	14
Max width	52.1
Blowdown width	52.1
% of bore width	71.4%
Port type re	ectangular
Port Opens	80.34°
Duration	199.3°
Blowdown deg.	33.3°
Total Area mm ²	1388
Blowdown Area mm ²	670
Lower Area,mm ²	718
Time-Area	13.72
Time-Area,blowdown	6,89
S-sg mm	3.67
Angle-Area	6.77
Estimated HP	82.8
Est. Blowdown HP	72.4
Estimated BMEP,Psi	122.4
Est. Blowdown BMEP.	Psi 107
Length of port	53.1
I.D of port	41.7
Exh. I.D good to ,rpm	7500
Exh. gas velocity est.fps	s 176
Est. port i.d,based on po	ort 42

Carburetor Spec			
Type	Mikuni vm 38		
Stock Main Jet	290		
Main Jet on Dyno	290		
Mj based on air tem	np,c +27		
Mj based of barome	eter 30,26		
Mj based on vapor	press. 0,60		
Jet Needle	6DH1-4		
Needle Jet	480-Q-0		
Throttle valve cut.			
Pilot Jet	40		
Air Screw	0.5		

Ignition Spec		
BTDC	1.60mm	
BTDC,6000rpm	27°	
BTDC,7000rpm	24°	
BTDC,8000rpm	19°	
BTDC,8500rpm	16°	
BTDC,9000rpm	13°	
CDI Hitachi T1	AO1-43	
Spark Plug	BR9EV	

Friday 17 February 1995

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http://www.mperformance.com/Sidor/Trimning.htm